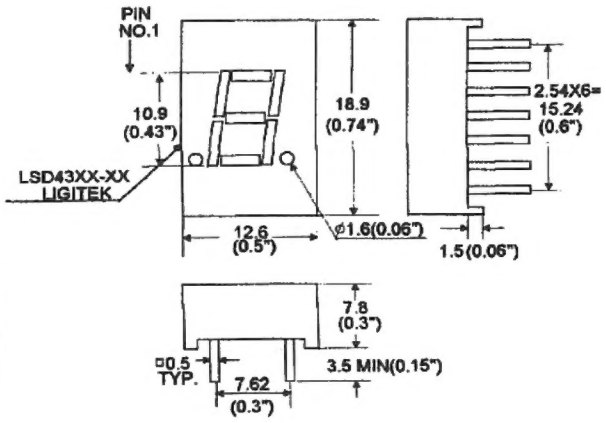
Jameco Part number 81496

LIGITEK

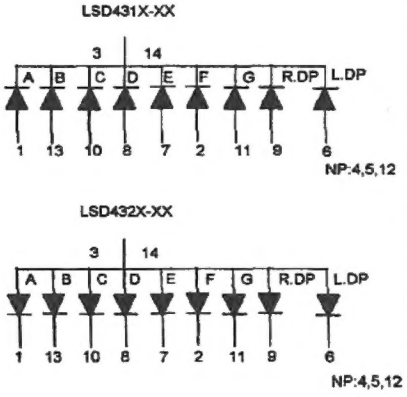
SINGLE DIGIT LED DISPLAY (0.43inch) **LSD431X/2X** *series* *Page 1/2*

PACKAGE DIMENSION



NOTE: All Dimension Are In Millimeters And (Inch)
Tolerance Is ±0.25(0.01") Unless Otherwise Noted

INTERNAL CIRCUIT DIAGRAM



- **Connection To Electrical Schematic**

Electrical Connection

PIN NO.	LSD431X-XX	PIN NO.	LSD432X-XX
1	Anode A	1	Cathode A
2	Anode F	2	Cathode F
3	Common Cathode	3	Common Anode
4	NP	4	NP
5	NP	5	NP
6	Anode L.DP	6	Cathode L.DP
7	Anode E	7	Cathode E
8	Anode D	8	Cathode D
9	Anode R.DP	9	Cathode R.DP
10	Anode C	10	Cathode C
11	Anode G	11	Cathode G
12	NP	12	NP
13	Anode B	13	Cathode B
14	Common Cathode	14	Common Anode

文件編號：QW0905-S431/2X-XX 版本：A 生效日期：May . 10 . 1996

Jameco Part number 81496

SINGLE DIGIT LED DISPLAY (0.43inch) **LSD431X/2X series**

• Part Selection And Application Information (Ratings At 25°C Ambient)

PART NO	CHIP		common cathode or anode	λP (nm)	Δλ (nm)	Electrical					IV-M
						Vf(v)			Iv(mcd)		
	Material	Emitted				Min	Typ.	Max	Min	Typ.	
LSD4315-XX	GaAlAs	Red	Common Cathode	660	20	1.5	1.7	2.4	0.5	0.9	2:1
LSD4311-XX	GaP	Red		697	90	1.7	2.1	2.8	1.4	2.4	2:1
LSD4312-XX	GaP	Green		565	30	1.7	2.1	2.8	1.1	1.8	2:1
LSD4313-XX	GaAsP/GaP	Yellow		585	35	1.7	2.0	2.8	1.4	2.4	2:1
LSD4314-XX	GaAsP/GaP	Orange		635	45	1.7	2.0	2.8	1.9	3.1	2:1
LSD4325-XX	GaAlAs	Red	Common Anode	660	20	1.5	1.7	2.4	0.5	0.9	2:1
LSD4321-XX	GaP	Red		697	90	1.7	2.1	2.8	1.4	2.4	2:1
LSD4322-XX	GaP	Green		565	30	1.7	2.1	2.8	1.1	1.8	2:1
LSD4323-XX	GaAsP/GaP	Yellow		585	35	1.7	2.0	2.8	1.4	2.4	2:1
LSD4324-XX	GaAsP/GaP	Orange		635	45	1.7	2.0	2.8	1.9	3.1	2:1

• Absolute Maximum Rating (Ta=25°C)

Parameter	Red			Green		Yellow			Orange		Unit	Remark
Forward Current Per Chip	SR		H		G		Y			E		
	40		15		30		20			30	mA	
Peak Current Per Chip (Duty 1/10, 0.1MS Pulse Width)	200		60		120		80			120	mA	
Power Dissipation Per Chip	110		45	100		85			100		mW	
Derating Linear From 25°C Per Chip	0.45		0.25	0.45		0.45			0.45		mA/ °C	
Reverse Current Per Any Chip	10			10		10			10		μA	
Operating Temperature	-40°C TO +85°C											
Storage Temperature	-40°C TO +100°C											

Solder Temperature 1/16 Inch Below Seating Plane For 3 Seconds At 260°C

• Test Condition For Each Parameter

Parameter	Symbol	Unit	Test Condition
Forward Voltage Per Chip	Vf	volt	If=20mA
Luminous Intensity Per Chip	Iv	mcd	If=10mA
Peak Emission Wavelength	λP	nm	If=20mA
Spectral Line Half-Width	Δλ	nm	If=20mA
Reverse Current Any Chip	Ir	μA	Vr=5V
Luminous Intensity Matching Ratio	IV-M		